Comparison of breast cancer incidence, clinicopathologic features, and risk factor prevalence in women aged 20-29 to those aged 30-39

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BACKGROUND

- In studies of young women with breast cancer, women aged 20-29 at diagnosis are often combined with patients up to 45
- Characteristics inherent to those aged 20-29 may be obscured
- Incidence of breast cancer in women younger than 40 has been reported as stable for past 4 decades, but unclear if this is true for those 20-29

HYPOTHESIS

- Women aged 20-29 will exhibit differences in incidence, clinicopathologic features, and risk factor prevalence when compared with women aged 30-39

METHODS

- Surveillance Epidemiology and End Results (SEER) 9 registries used to determined breast cancer incidence in women aged 20-39 from 1975-2014
- Retrospective review of all women aged 20-39 that presented to OHSU from 2005-2016 with invasive breast cancer

RESULTS

Breast cancer incidence in women aged 20-39 at diagnosis, SEER 9 data 1975-2014

- Significantly lower incidence in women aged 20-29 at diagnosis than those 30-34 or 35-39 (p<0.0001)
- Rate of diagnosis in women aged 20-29 has significantly increased from 1975-2014
- There is no significant change in the rate of diagnosis for women 30-34 or 35-39 between 1975-2014

Comparison of clinicopathologic features and risk factors in women aged 20-29 at diagnosis to those aged 30-34 and 35-39, OHSU data 2005-2016

- Comparison of gravidity and parity between women aged 20-29 vs those 30-34 and 35-39
- Comparison of age at first birth and age of menarche between women aged 20-29 vs those 30-34 and 35-39
- Comparison of rate of oral contraceptive pill and alcohol use in women aged 20-29 vs those 30-34 and 35-39

Comparison of BMI in women aged 20-29 vs those 30-34 and 35-39

CONCLUSIONS

- Women with breast cancer aged 20-29 at diagnosis demonstrate unique attributes when compared with the other age groups with whom they have been traditionally combined
- A greater understanding of the biology of these tumors is necessary given the increasing incidence of breast cancer in women 20-29

REFERENCES:


† p<0.05
* p<0.05 when compared with women aged 20-29